

**EG&G
SUPERSEDED
DOCUMENT**

ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL
VOLUME III: GEOTECHNICAL

Manual No.: 5-21000-OPS-GT
Procedure No.: Table of Contents, Rev 58
Page: 1 of 3
Effective Date: 05/06/94
Organization: Environmental Management

THIS IS ONE VOLUME OF A SIX VOLUME SET
WHICH INCLUDES:

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VOLUME II: GROUNDWATER (GW)
VOLUME III: GEOTECHNICAL (GT)
VOLUME IV: SURFACE WATER (SW)
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93-DMR-000955	Form GT.2A Modification	2	01/10/94
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94-DMR-000382	Approval Process and Sampling Collection Modification	2	03/28/94
94-DMR-000405	Sample Liner Taping Changes	2	03/28/94

DOCUMENT CLASSIFICATION REVIEW WAIVER
PER R.B. HOFFMAN, CLASSIFICATION OFFICE
JUNE 11, 1991

ADAM 

A-SW-001370

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93-DMR-000956	Form GT.3A Modification	2	01/10/94
94-DMR-000418	Advanced Notification to the State of Colorado	2	04/22/94
GT.04	Rotary Drilling and Rock Coring	2	05/12/92
93-DMR-000957	FORM GT.4A Modification	2	01/10/94
94-DMR-000419	Advanced Notification to the State of Colorado	2	04/22/94
GT.05	Plugging and Abandonment of Boreholes	2	05/12/92
93-DMR-000961	Form GT.5A Modification	2	01/10/94
GT.06	Monitoring Wells and Piezometer Installation	2	05/12/92
DCN 93.08	PVC Schedule Change	2	05/10/93
DCN 93.09	Change to PVC Casing Thickness	2	05/11/93
DCN 93.10	SVE Bentonite Chips	2	08/20/93
DCN 93.11	SVE Well Specifications	2	08/20/93
DCN 93.12	Riser Installation	2	09/02/93
DCN 93.13	Cancel DCN 93.11, Item #1 for OU 2 SVE Study	2	10/06/93
DCN 93.14	Revision of Figure GT.6-3	2	10/06/93
GT.07	Logging and Sampling of Test Pits and Trenches	2	05/12/92
94-DMR-000276	Section GT.07 and form Modifications	2	02/28/94
GT.08	4-E42-ER-OPS-GT.08 Surface Soil Sampling	3	01/25/94
94-DMR-000133	Sampling Modifications	3	02/04/94
94-DMR-000229	Editorial Correction GT.08	3	03/14/94
GT.09	Soil Gas Sampling and Field Analysis	2	05/12/92
94-DMR-000431	Calibration Occurrence Clarification	2	04/11/94
GT.10	Borehole Clearing	2	05/12/92

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GT.11	Plugging and Abandonment of Wells	2	05/12/92
93-DMR-000962	Form GT.11A Modification	2	01/10/94
•94-DMR-000561	Section 11 Modification	2	05/06/94
GT.15	Geophysical Borehole Logging	2	05/12/92
GT.17	Land Surveying	2	05/12/92
DCN 93.01	Land Surveying Clarification	2	09/02/93
•94-DMR-000560	Text Modification	2	05/06/94
GT.18	Surface Geophysical Surveys	2	05/12/92
DCN 93.02	5.5 Time Domain Electromagnetic Metal Detection	2	11/22/93
GT.19	Field Gas Chromatographs	2	05/12/92
GT.20	Procedures for Soil Interstitial Water Sampling and Sampler Installation	2	05/12/92
94-DMR-000297	Section GT.20 and form Modifications	2	02/28/94
GT.21	Cone Penetrometer Testing	1	05/12/92
GT.24	Approval Process for Construction Activities on or Near Individual Hazardous Substance Sites (IHSSs)	0	05/12/92

DOCUMENT MODIFICATION REQUEST (DMR)

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Refer to 1-A01-PPG-001 for Processing Instructions.
Print or Type All Information (Except Signatures)

2. Existing Document Number/Revision 5-21000-OPS-GT.17/Rev2			1. Date March 31, 1994		25. DMR. No. 94-DMR- <u>SLRD 7-6-94</u> <u>000560</u>	
4. Originator's Name/Phone/Page/Location J.A. Paschis/x8644/NA/080			3. New Document Number or Document Number if it is to be changed with this Revision NA			
6. Document Type <input checked="" type="checkbox"/> Procedure <input type="checkbox"/> Other _____			7. Document Modification Type (Check only one) <input type="checkbox"/> New <input type="checkbox"/> Revision <input checked="" type="checkbox"/> Intent Change <input type="checkbox"/> Nonintent Change <input type="checkbox"/> Editorial Correction <input type="checkbox"/> Cancellation			
8. Item	9. Page	10. Step	11. Proposed Modifications			
1	3	5.1	Insert the following paragraph after the first paragraph of Section 5.1: <i>and TPL 4/9/94</i> For surveying new well installations, not piezometers, the land surveyor will be supplied with a copy of the approved Well Installation Notification Form (GT.6A) by the requesting Project Manager. The form will be used to locate the new well site in the field and to verify the location code (well number) assigned by the Environmental Science and Engineering, Geosciences Division.			
2	6	6.0	Reword the last sentence of Section 6.0 as follows: A numerical printout of all coordinates for the location code (well number) and data provided on 3 1/2" diskette along with a base map will be delivered to the Environmental Science and Engineering, Geosciences Division within ten working days of the completion of field surveying.			
12. Justification (Reason for Modification, EJO#, TP#, etc.)						
1. Form GT.6A provides land surveyor with general field locality and verifies controlled location code of new well requested to be surveyed.						
2. Clarifies objects (well parts) to be coordinate-surveyed and revises ES&E to be receiver of survey documentation.						
If modification is for a new procedure or a revision, list concurring disciplines in Block 13, and enter N/A in Blocks 14 and 15. If modification is for any type of change or a cancellation, organizations are listed in Block 13, then Concurror prints, and signs in Block 14, and dates in Block 15.						
13. Organization		14. Print and Sign (if applicable)			15. Date (if applicable)	
SME		Tim Lovseth <i>Tim Lovseth</i>			4/8/94	
EQS		Mark Brooks <i>Mark Brooks</i>			4-28-94	
RPM		Wanda Busby <i>Wanda Busby</i>			4/12/94	
EOM		Marla Broussard <i>Marla Broussard</i>			4-15-94	
ETT		Gary Anderson <i>Gary Anderson</i>			29 Apr 94	
SPP		Steve Keith <i>Steve Keith</i>			4-19-94	
16. Originator's Supervisor (print/sign/date) Stephen H. Singer <i>Stephen H. Singer</i> 4/7/94						
17. Assigned SME/Phone/Page/Location Tim Lovseth/8706/5134/080			18. Cost Center 0202		19. Charge Number ENV-GT	
			20. Requested Completion Date 03/21/94		21. Effective Date 5-6-94 <i>SLRD</i>	
22. Accelerated Review? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		23. ORC Review Not required; this nonintent change was processed as an intent change to expedite the DMR process.				
24. Responsible Manager (print/sign/date) Mark E. Levin <i>Mark E. Levin</i> 4/29/94						

REVIEWED FOR CLASSIFICATION/UCNI

BY NA
DATE NA

LAND SURVEYING

EG&G ROCKY FLATS PLANT
EMD MANUAL OPERATION SOP

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Environmental Management

Category 2

objectives presented in the work plans will be discussed at this time. The subcontractor will have the ultimate responsibility for surveying data quality.

4.0 REFERENCES

4.1 INTERNAL REFERENCES

Related SOPs cross-referenced by this SOP are as follows:

- SOP GT.6, Monitoring Wells and Piezometer Installation
- SOP GT.7, Logging and Sampling of Test Pits, Trenches, and Construction Excavations
- SOP GT.8, Surface Soil Sampling
- SOP GT.10, Borehole Clearing

5.0 PROCEDURES

5.1 PRELIMINARY LOCATION OF SAMPLING POINTS

The proposed locations of the data acquisition points will have been discussed in the project work plans with the locations indicated on project site maps/figures and/or described in the text. EG&G and subcontractor personnel will review the proposed sampling points prior to actual location in the field and come to final agreement regarding them.

For surveying new well installations, not piezometers, the land surveyor will be supplied with a copy of the approved Well Installation Notification Form (GT.6A) by the requesting Project Manager. The form will be used to locate the new well site in the field and to verify the location code (well number) assigned by the Environmental Science and Engineering, Geosciences Division.

94-D4R-00560